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Dec 9, 1991

PUB-NO: JP403278071A  
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TITLE: IMAGE RECORDING SYSTEM

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INVENTOR-INFORMATION:

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APPL-NO: JP02126997  
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ABSTRACT:

PURPOSE: To realize a novel transfer system and to reduce the size of the device by heating an optional point of a polymer film subjected to polarization treatment to a temperature of Curie point or more to depolarize it and to form an electrostatic latent image, and developing it with a developing agent.

CONSTITUTION: Ferroelectric polymers are polarized by applying an electric field and hold electric charge on the surface, and an optional point of the polymer film subjected to the polarization treatment is heated to  $\geq$ Curie point to depolarize it and to form the electrostatic latent image by utilizing this characteristics. This latent image is developed by the developing agent. As the ferroelectric polymer compound to be used for forming a recording layer, a vinylidene fluoride-vinylidene trifluoride copolymer is most desirable, and this recording operation is carried out by focusing semiconductor laser beams to irradiate an optional point and to raise its temperature to  $\geq$ Curie point, and depolarizing it, thus permitting the device to be reduced in the size and weight and image element density to be enhanced, and a single printing plate to be used repeatedly.

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